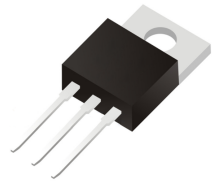
MBR2040CT - MBR20200CT

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE: 40 - 200V

CURRENT: 20A



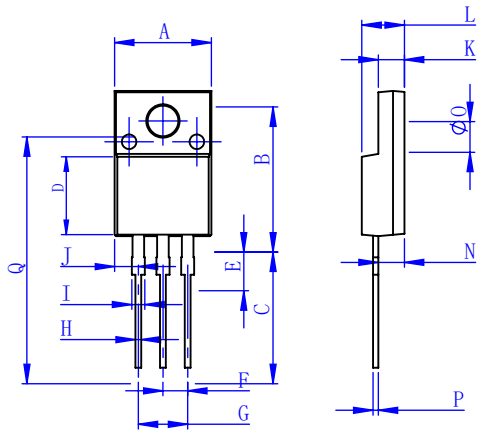
Feaures

- High efficiencty operation
- Low power loss
- Low stored charge majority carrier conduction
- High forward surge capability
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std (Halogen Free)

Mechanical Data

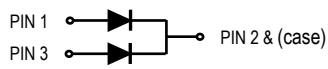
- Circuit figure: Common cathode
- Leads: Solderable per mil-std-202, Method 208
- Polarity: as marked
- Mounting torque: 5 in-lbs maximum
- Terminals: Puretin plated
- Weight: TO-220AB 1.85 grams

RoHS COMPLIANT



ITO-220产品尺寸对照表

DIM	MIN	MAX
A	9.8	10.2
B	14.8	15.2
C	13.4	13.8
D	7.5	8.5
E	3.8	4.2
F	2.35	2.75
G	4.9	5.3
H	0.5	0.7
I	1.25	1.45
J	2.3	2.6
K	2.5	2.9
L	4.2	4.6
N	2.5	2.9
O	3.1	3.4
P	0.5	0.7
Q	25.2	25.8



Maximum Ratings and Electrical Characteristics

T_A = 25°C unless otherwise specified

RATINGS	SYMBOL	MBR 2040CT	MBR 2045CT	MBR 2060CT	MBR 20100CT	MBR 20150CT	MBR 20200CT	UNIT
Maximum repetitive reverse voltage	V_{RRM}	40	45	60	100	150	200	V
Maximum RMS voltage	V_{RMS}	28	32	42	70	105	140	V
Maximum DC blocking voltage	VDC	40	45	60	100	150	200	V
Maximum average forward current per device / per diode	I_{AV}	20 / 10						A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	220						A
Typical thermal resistance (Note 1)	$R_{\theta-JC}$	2.0						°C/W
Operating junction temperature range	T_J	-55 to +150				-55 to +175		°C
Storage temperature range	T_{STG}	-55 to +175						°C
Maximum forward voltage per leg at I_F=10A	V_F	0.65		0.75	0.85	0.92		V
Maximum average reverse current at rated DC blocking voltage TJ=25°C / TJ=125°C	I_R	0.10 / 15			0.01 / 5			mA

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

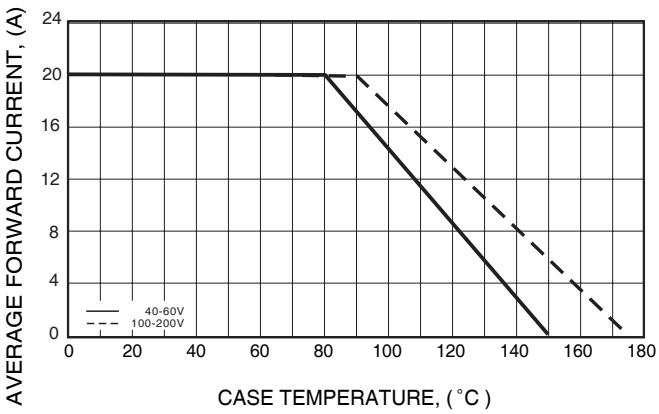


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

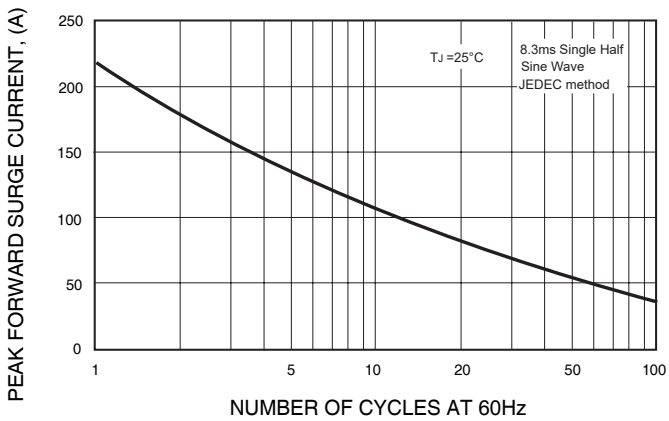


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

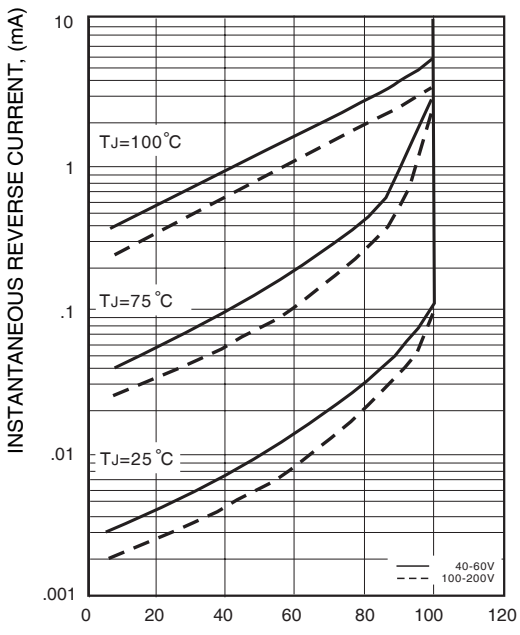


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

